

**NIH/ NIDDK-Charles R. Drew University
of Medicine and Science
High School
Student Research Application
2003**

Sponsored By:



**National Institute of
Diabetes & Digestive &
Kidney Diseases**



**Charles R. Drew University
of Medicine & Science**

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Program Announcement

National High School Students Summer Research Apprentice Program NIH/NIDDK & Charles R. Drew University

Program Administration: Drew University School of Medicine and Sciences

Funded by: National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

National Center for Minority Health and Health Disparities (NCMHD) (formally Office of Research on Minority Health)

Release Date: December 6, 2003

NIDDK/Drew University is now accepting applications for the National High School Summer Research Apprentice Program. The admissions committee looks for highly motivated students who have a passion for learning and interest in the biomedical Sciences. Program size is limited so students are encouraged to apply early. This year the program is being administered through Charles Drew University of Medicine and Science in Los Angeles, California. Students who have taken the program during a previous summer and who wish to attend in Summer 2003 must submit another completed application. Late applications are considered on a space-available basis and only after all other applications have been reviewed. Please submit the application items outlined in the program application check-off list. To ensure timely review and notification, applicants should submit the items listed together in one packet.

Application deadline: The deadline for the application is March 1, 2003 (all mail received should be postmarked by this date.) The NIH summer visit will take place in August 2003 in Bethesda Maryland, where you will present your project.

Inquires: If you have any additional questions, please direct your inquiry to:

Charles Drew University of Medicine and Sciences
1731 East 120th Street
Hawkins Building, Room 3080
Los Angeles, CA, 90059
Phone: 1-800-300-2847 Local: 323-357-3611
C/O Emma Taylor
E-mail: emtaylor@cdrewu.edu

NIH/NIDDK-Charles Drew University of Medicine and Sciences National High School Student Summer Research Apprentice Program

Program Summary

In 1995, the National Center for Minority Health and Health Disparities (formerly the Office of Research on Minority Health), NIH and the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) initiated the National High School Student Summer Research Apprentice Program. The purpose of the program is to increase the number of disadvantaged students who are involved in bio-medical research. Currently, there is a critical shortage of minorities (Hispanic/Latino, African Americans, Native American, Asian Pacific Islanders, and Alaskan Native population) in this field. As a result, critical insights and perspectives are lacking in the development, implementation and evaluation of a growing and important field, Biomedical Research. The NHSSSRP is a collaboration between NIH/NIDDK and Charles Drew University of Medicine and Sciences. While NIDDK provides funding and program oversight, the day-to-day coordination of the program is handled by Charles Drew University. The program is designed to provide the students with an opportunity to work at a bio-medical facility (usually a college or university) near their homes. Each student is paired with a seasoned researcher and assigned to a research team. The students work with staff on a specific bio-medical research project for 6-8 hours per day. The 8-week program provides the students with real experiences including opportunities to:

- learn what bio-medical research is by being actively involved in a project
- be a member of a "team"; to understand "collective" responsibility
- work with a mentor in your local area for project presentation
- prepare for project competition at the "National Institutes of Health" in Washington, D.C.

Many students find the trip to Washington and the project competition to be the highlight of their summer. Parents are invited and often attend the presentations to support and applaud their child's work; hours of preparation and rehearsal time that have been invested in these presentations; often with the assistance and encouragement of their project mentors.

Qualifications/Requirements

1. A student must have a “B” or better grade average
2. Students in tenth through twelfth grade at time of application due date
3. Completion of application form and application essay, typed
4. Copy of official academic transcript signed
5. Community service reference
6. College planned and major
7. References
9. Signed parental consent form

Please forward all information with the application or you will not be considered

Scope of Support:

The students will receive a stipend of \$1,800.00

The payment will be administered in three payments:

1. First payment after acceptance into program and collaborating with a mentor for 3 weeks
2. Second payment after 4th week into program
3. Last payment upon completion of program at NIH Symposium in Bethesda, MD
4. Trip paid for to the NIH/NIDDK Symposium
5. Paid hotel for Symposium-Holiday Inn Select, Bethesda Maryland
6. Paid local tours and meals

How to Apply:

Charles Drew University of Medicine and Sciences

1731 East 120th Street

Hawkins Building, Room 3080

Los Angeles, CA, 90059

Phone: 1-800-300-2847 Local: 323-357-3611

C/O Emma Taylor

E-mail: emtaylor@cdrewu.edu

Application: Summer 2002

***NIDDK/Charles Drew University of Medicine and Sciences
National High School Students Research Apprentice Program***

Please print, type and use black ink

Part A: Questionnaire:

Name: _____
Last First Middle Initial Sex

Date of birth: _____

Address: _____

Telephone number: _____ E-mail _____

Age: _____ Current Grade: _____

Name of School Presently Attending: _____

Educational Background:

Type of School	Name/Location	Grade	Area of Study

Employment Information

Work Experience: Related Research

Place of Employment	Date(s) of Employment	Title/Position	

If necessary, use another page for additional responses.

What are your extracurricular activities, hobbies or main interests outside of school?

To which other summer programs are you applying?

What are your long-range education and career objectives?

Describe any independent study or projects that you have undertaken.

Note: Check one of the following categories, which most closely reflects your racial/ethnic origin. (All categories are eligible).

_____ **American Indian or Alaskan Native.**

_____ **Asian**

_____ **Pacific Islander**

_____ **Black, not of Latino Origin**

_____ **Latino**

_____ **White, not of Latino origin**

_____ **Other**

(Optional) Please Specify _____

_____ Check here if you do not wish to provide information.

I hereby certify that the above information on this application is correct to the best of my knowledge.

Signature

Date

Part B: Essay Question (Please use space below and type your essay limit to 250 words)

Question: What are your expectations of the National High School Students Research Apprentice Program and what do you hope to benefit from your participation in the program?

***NIDDK/Charles Drew University School of Medicine and Sciences
National High School Student Research Apprentice Program***

Application Check off List

The following items should be submitted in one application packet:

- Completed application form
- Official academic transcript submitted in an envelope sealed by the appropriate school official
- Essay statement (Limit your essay to 250 words typed)
- Signed Parental consent form
- Recommendation from Counselor
- Award information
- College Future
- Major
- References
- Community Work Recommendations

Send applications and accompanying materials to the following address:

Charles Drew University of Medicine and Sciences
1731 East 120th Street
Hawkins Building, Room 3080
Los Angeles, CA, 90059
1-800-300-2847
323-357-3611
C/O Emma Taylor
E-mail: emtaylor@cdrewu.edu

Student Section

NIDDK/NHSSSRP Student Participant Guidelines

This program is designed to give an introduction to almost every facet of the biomedical research community. From the creation of a research plan to the presentation of that research, student researchers will develop the requisite skills and attributes to effectively enter the post secondary biomedical academic world. By the end of the program each student would have:

- Been introduced to an assigned research mentor
- Been given a grade specific research assignment
- Been overseen on the progress of the assigned research topic
- Received guidance—as needed—from Charles Drew coordination staff persons
- Been given the opportunity to communicate with other students in the program from across the country through the Charles Drew website community
- Been assigned to team of students representing a diverse population across the country and assigned a group specific activity to be presented at the summer closing symposium
- Been provided information on the correct format and guidelines for the development and organization of a presentation to a board of judges
- Been granted an opportunity to present the specific research topic at the National Institutes of Health in suburban Washington, DC

Student participants are expected to work with seasoned mentors throughout the summer and develop a presentation representing the research conducted over the summer. Each student will receive a specified outline for the kind of presentation that is expected and will be judged on.

Charles Drew expects that student researchers will not merely be observers, but enthusiastic contributing members of the research team, and that the exposure to the scientists and “real world” science will positively impact your development as potential biomedical researchers and physicians.

Students will be assigned to new and ongoing research projects based on their particular assignment location. Students are encouraged to contact their assigned mentor prior to arriving onsite officially to establish communication and to discuss the nature of the work to be undertaken. Moreover, this beforehand communication will enable the student and mentor to develop the schedule for future contact and project research requirements.

Although each student’s specific research program will differ according to the faculty mentor and subject matter, each student is expected to prepare a similar abstract of research as outlined below. Only in some cases will research undertaken be “original.” Nonetheless, every student will be shown the importance of their input in the process and how their work fits the overall goal or direction of the mentor’s research.

Student research fellowships are based on set schedule—designed to meet the mutual time needs of the mentor and student. A regular arrival and departure time should be agreed upon before the official start date. Students should be completely prepared—with proper supplies, proper attire, etc.—to put in full time effort on their projects, which may include evening and weekend time. Research mentors expect—and the program requires—continued and sustained work throughout the duration of the program period. Fellows are to find out the site’s work schedule and whether their project requires variation in the daily schedule. Students are expected to maintain constant contact with mentors, buddies and Charles Drew staff—either verbal or electronic—in order to express any concerns or questions. The Program Coordinator is responsible for developing a centralized schedule of activities of students that will outline the work schedules for each student..

Unfortunately, the program does not provide for paid vacation or sick days. Any days missed during the summer must be cleared with the mentor and communicated with the Program Coordinator. Moreover, any time missed must be made up at a time feasible with the mentor. If mentor does not approve time off—except in cases of documented emergencies—deductions from the student stipend will be made.

Each student—regardless of grade level—is expected to draft a comprehensive abstract of the research assignment for publication in the program compendium. Students are highly encouraged to begin the writing of the abstract as soon as possible as to avoid last minute editing. The abstract is due to the Program Coordinator no later than three weeks prior to the completion of the program. Students are encouraged to ask for help when needed in developing the abstract. Contact the Program Coordinator, the assigned mentor or the assigned buddy with any questions you may have with regard to developing a correct abstract.

All students should generate a copy of this abstract for the. The Faculty mentor will edit it for clarity and correctness. Students in grades 10 and 11 at the time of application are to develop an abstract for presentation at NIH/NIDDK. Students in the 12th grade at the time of their application are to develop an oral presentation and poster with visual graphics.

<p style="text-align: center;">NIH-Charles R. Drew University of Medicine and Science PARENTAL CONSENT FORM</p>

This is to certify that _____ has parental consent to participate in the National Institute of Diabetes and Digestive and Kidney Diseases-Charles R. Drew University's National High School Student Summer Research Program.

I understand that in the event of his/her illness during working hours, I will be notified immediately or the alternate person named below may be notified if I cannot be reached. I also understand that I will be responsible for all medical liability in the event of injury or illness.

In addition, I understand that upon completion of the program, my child will be expected to participate in a project presentation at the National Institutes of Health and provided with transportation and housing to NIH DC (roundtrip). The date for presentations are scheduled for mid August 2003

Signature of Applicant/Student

Date

Signature of Parent of Guardian

Date

Street Address

City

State

Zip Code

Home Phone: _____

Work Phone: _____

Name of Alternate: _____

Home Phone: _____

E-mail: _____

<p>Important: This form must be signed and notarized if youth is under 18 years of age. Youth cannot be permitted to work if this form is not notarized.</p>
